

## STIC Biotechnology Systems Branch

### RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/530,636  
Source: PCT/10  
Date Processed by STIC: 4/13/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

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## Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>10/530,636</u>
<b>ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE</b>		
1 <input type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	

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PCT

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/530,636

DATE: 04/13/2005  
TIME: 16:15:21

Input Set : A:\Miniferon.ST25.txt  
Output Set: N:\CRF4\04132005\J530636.raw

3 <110> APPLICANT: Zavyalov, Vladimir  
 5 <120> TITLE OF INVENTION: Peptides and recombinant proteins mimicking interferons  
 7 <130> FILE REFERENCE: Miniferon  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/530,636  
 C--> 10 <141> CURRENT FILING DATE: 2005-04-06  
 12 <160> NUMBER OF SEQ ID NOS: 4  
 14 <170> SOFTWARE: PatentIn version 3.3  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 8  
 18 <212> TYPE: PRT  
 19 <213> ORGANISM: human interferon alfa2  
 21 <400> SEQUENCE: 1  
 23 Leu Lys Glu Lys Lys Tyr Ser Pro  
 24 1 5  
 27 <210> SEQ ID NO: 2  
 28 <211> LENGTH: 7  
 29 <212> TYPE: PRT  
 30 <213> ORGANISM: human interferon alfa2  
 32 <400> SEQUENCE: 2  
 34 Leu Lys Asp Arg His Asp Phe  
 35 1 5  
 38 <210> SEQ ID NO: 3  
 39 <211> LENGTH: 17  
 40 <212> TYPE: PRT  
 41 <213> ORGANISM: synthetic  
 44 <220> FEATURE:  
 45 <221> NAME/KEY: PEPTIDE  
 46 <222> LOCATION: (1)..(8)  
 47 <223> OTHER INFORMATION: peptide sequence from human interferon alfa2 (aa 130-137)  
 49 <220> FEATURE:  
 50 <221> NAME/KEY: PEPTIDE  
 51 <222> LOCATION: (9)..(10)  
 52 <223> OTHER INFORMATION: linker  
 54 <220> FEATURE:  
 55 <221> NAME/KEY: PEPTIDE  
 56 <222> LOCATION: (11)..(17)  
 57 <223> OTHER INFORMATION: peptide sequence from human interferon alfa2 (aa 30-36)  
 59 <400> SEQUENCE: 3  
 61 Leu Lys Glu Lys Lys Tyr Ser Pro Ser Ser Leu Lys Asp Arg His Asp  
 62 1 5 10 15  
 65 Phe  
 69 <210> SEQ ID NO: 4  
 70 <211> LENGTH: 17

*Does Not Comply  
Connected Diskette Neede.*

*pp 1-2*

*invalid <213> response. See item 10 on Exam  
summary  
sheet*

RAW SEQUENCE LISTING  
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Input Set : A:\Miniferon.ST25.txt  
Output Set: N:\CRF4\04132005\J530636.raw

71 <212> TYPE: PRT  
72 <213> ORGANISM: synthetic  
75 <220> FEATURE:  
76 <221> NAME/KEY: PEPTIDE  
77 <222> LOCATION: (1)..(8)  
78 <223> OTHER INFORMATION: peptide sequence from human interferon alfa2 (aa 130-137)  
80 <220> FEATURE:  
81 <221> NAME/KEY: PEPTIDE  
82 <222> LOCATION: (9)..(10)  
83 <223> OTHER INFORMATION: linker /  
84 X is any short chain amino acid  
86 <220> FEATURE:  
87 <221> NAME/KEY: PEPTIDE  
88 <222> LOCATION: (11)..(17)  
89 <223> OTHER INFORMATION: peptide sequence from human interferon alfa2 (aa 30-36)  
91 <400> SEQUENCE: 4  
W-Of 93 Leu Lys Glu Lys Lys Tyr Ser Pro Xaa Xaa Leu Lys Asp Arg His Asp  
94 1 5 10 15  
97 Phe

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/530,636

DATE: 04/13/2005  
TIME: 16:15:22

Input Set : A:\Miniferon.ST25.txt  
Output Set: N:\CRF4\04132005\J530636.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; Xaa Pos.:—9,10 ✓

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/10/530,636

DATE: 04/13/2005  
TIME: 16:15:22

Input Set : A:\Miniferon.ST25.txt  
Output Set: N:\CRF4\04132005\J530636.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0